

Cat6A Ethernet Cables

Technical data pages by Spectrum

Cat6A Copper Cable, 1000ft (305m), 23AWG, Solid, 550MHz, Unshielded (UTP), PVC, with Reel (White)



Part Number: 021310



Cat6A was developed to achieve maximum distance of 100 meters for full 10 Gigabit network speeds. This robust spec will afford you the extra headroom across your network that Cat6 cannot. The 550MHz performance is double that of Category 6 and five times the bandwidth capacity of Category 5e. Our Cat6a bulk cable tested for compliance with all ANSI/TIA-568.2-D Cat 6a specifications.

Features and Benefits

- CMR Rated (Riser) for Use in Between Floors, In-Wall, And Non-plenum Spaces
- Up to 550MHz with 1G/10G-T Speed, Support PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)
- Tested with a Fluke DSX-8000 Versiv Cable Analyzer
- Fully Compliant with UL® and ANSI/TIA-568.2-D Fire and Safety Standards
- Support Solution Testing and Validation, And Can Provide Demo Testing
- Marked Every 1m (3.28ft) on Cable Makes Measuring Easy
- Multiple Colors Lengths to Help Organize and Simplify Complicated Cable Runs

Application

- Use in between Floors, In-Wall, and Non-plenum Spaces
- Rated for any 10/100/1000Base-T Ethernet
- Connect with Switches, Routers, Computers, IP Cameras, Xbox, Apple TV and Much More

CAT6A CABLES

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Technical Descriptions

Physical Characteristics

Operating Temp. Range	-20 to +75°C (-4 to 167°F)
Max. Operating Voltage (v)	300
Reference Standard	ISO/IEC 11801, ANSI/TIA-568.2-D

Conductor

Conductor Type	Solid Bare Copper
Wire Gauge (AWG)	23
Conductor Nom.O.D. (mm)	0.565 ± 0.005
Conductor Qty.	4 Twisted Pairs

Insulation

Insulation Material	HDPE
Insulation Diameter (mm)	1.02 ± 0.05
Core Color	A. White - Blue, Blue B. White - Orange, Orange C. White - Green, Green D. White - Brown, Brown

Jacket

Material	PVC (Complies RoHS), CMP
External O.D. (mm)	7.1 ± 0.4
Thickness (mm)	0.70 ± 0.05
Color	White
Surface	Clean, Frap, Satiation
Rip Cord	Yes

Electrical Characteristics

1.0-250.0MHz Impedance (ohms)	100 ± 15
1.0-250.0MHz Delay Skew (ns/100m)	≤45
Capacitance Unbalance (pF/100m)	≤160
Max. Conductor DC Resistance @20°C (ohms/100m)	9.38
Resistance Unbalance (%)	≤5.0

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Mechanical Characteristics	
Before Aging Tensile Strength (Mpa)	≥13.5
Before Aging Elongation (%)	≥150
Aging Period (°C×hrs)	100°C×24h×7d
After Aging Tensile Strength (Mpa)	≥12.5
After Aging Elongation (%)	≥125
Cold Bend (-20±2°C×4h)	8 × Cable O.D., No Visible Cracks

Packing	
Packing Type	1000ft (305m) / Roll
Carton Dimension (HxWxD)	260×390×390 MM

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/ EG

